

Title (en)
DYNAMIC WEIGHT SHIFT SUSPENSION SYSTEM

Title (de)
AUFHÄNGUNGSSYSTEM MIT DYNAMISCHER GEWICHTSVERSCHIEBUNG

Title (fr)
SYSTÈME DE SUSPENSION DYNAMIQUE À DÉCALAGE DE POIDS

Publication
EP 3230096 A1 20171018 (EN)

Application
EP 15820939 A 20151211

Priority
• US 201462090903 P 20141212
• US 2015065146 W 20151211

Abstract (en)
[origin: WO2016094746A1] A dynamic weight shift suspension system for shifting the tandem axle loads on a vehicle. The system includes a first airbag connected between the drive axle of a tandem and the vehicle frame, and a second airbag connected between a tag axle of a tandem and the vehicle frame. The system also has a mechatronic control unit comprising at least one port and at least one solenoid. The mechatronic control unit is in direct fluid communication with the airbags and an air supply via fluid communication lines.

IPC 8 full level
B60G 17/015 (2006.01); **B60G 5/00** (2006.01); **B60G 17/016** (2006.01); **B60G 17/018** (2006.01); **B60G 17/052** (2006.01)

CPC (source: CN EP US)
B60G 5/00 (2013.01 - CN EP US); **B60G 17/0155** (2013.01 - CN EP US); **B60G 17/0164** (2013.01 - CN EP US);
B60G 17/018 (2013.01 - CN EP US); **B60G 17/0525** (2013.01 - US); **B60G 17/0528** (2013.01 - CN EP US);
B60G 2200/422 (2013.01 - CN EP US); **B60G 2202/152** (2013.01 - CN EP US); **B60G 2204/62** (2013.01 - CN EP US);
B60G 2206/0116 (2013.01 - CN EP US); **B60G 2300/0262** (2013.01 - CN EP US); **B60G 2400/252** (2013.01 - CN EP US);
B60G 2400/30 (2013.01 - CN EP US); **B60G 2400/51222** (2013.01 - CN EP US); **B60G 2500/2012** (2013.01 - CN EP US);
B60G 2500/2021 (2013.01 - CN EP US); **B60G 2500/204** (2013.01 - CN EP US); **B60G 2500/30** (2013.01 - CN EP US);
B60G 2800/182 (2013.01 - CN EP US); **B60G 2800/214** (2013.01 - CN EP US); **B60G 2800/915** (2013.01 - CN EP US)

Citation (search report)
See references of WO 2016094746A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2016094746 A1 20160616; CN 107000530 A 20170801; CN 107000530 B 20191122; EP 3230096 A1 20171018; EP 3230096 B1 20181128;
US 10358011 B2 20190723; US 2017361675 A1 20171221

DOCDB simple family (application)
US 2015065146 W 20151211; CN 201580066750 A 20151211; EP 15820939 A 20151211; US 201515533056 A 20151211